

REMARKS/ARGUMENTS

Applicant thanks Examiner for the detailed Office Action dated June 16, 2007. In response to the issues raised, the Applicant offers the following submissions and amendments.

Amendments

Claim 5 has been amended to explicitly define that the print chips are fabricated on separate monolithic wafer substrates and that removing and replacing the body simultaneously removes and replaces the printing fluid storage, the pagewidth printhead and the fluid connection. These features are described in the "Print Cartridge" subsection beginning at page 5.

Accordingly, the amendments do not add new matter.

35 U.S.C. §103 - Claims 2 to 5

Claims 2 to 5 stand rejected for lack as obvious in light of US 6,443,555 to Silverbrook in view of US 6,722,759 to Torgerson et al.

The '555 reference does not disclose a cartridge that has a pagewidth printhead and ink storage mounted to a body configured for user insertion and removal from the printer cradle. The '555 printer is a wide format printer with seven printhead units 3 extending the width of the media (54 inches). These units are not mounted to a body that is user removable from the printer casing 56. Likewise the ink cartridges 6 are not mounted to a body (printhead module 1) that is user removable from the printer casing 56. The citation does not teach a cartridge that has a pagewidth printhead and ink storage. The term 'cartridge' is well known and understood in the art to be a single component that can be periodically installed and removed from the printer. The printhead element 1, the ink cartridge 6 and printhead ICs 2 are not incorporated into a single cartridge form.

Similarly, Torgerson does not teach a printer cartridge with two print chips fabricated on monolithic wafer substrates which in combination, extend the width of the print media. Skilled addressees understand that 'print chips' are printhead integrated circuits that have the individual ink ejection nozzles fabricated on a monolithic substrate. The ground busses 181 are components of the circuitry on a single printhead IC fabricated onto one monolithic substrate 11.

In contrast, the present invention is a cartridge with two print chips for use in a printer. The entire cartridge, including the print chips and ink storage, is removable and replaceable. Using two print chips in the cartridge allows a pagewidth design that has a simple and reliable electrical interface with the printer controller. Two print chips allow the interface for each chip to be at either end of the printhead. The number of electrical contacts is divided between the interfaces at each end and the compressive force aligned down the longitudinal axis of the printhead maintains the connection between the contacts and secures the cartridge into position.

Accordingly, the cited references do not teach fundamental elements of the present invention and therefore fails to anticipate any of claims 2 to 5.

It is respectfully submitted that the Examiner's rejection has been successfully traversed and the application is now in condition for allowance. Accordingly, favorable reconsideration is courteously solicited.

Very respectfully,

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